



# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference F1030061WO00	FOR FURTHER ACTION	See Notifi Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No. PCT/JP2003/003751	International filing date (day 26 March 2003 (26.		Priority date (day/month/year) 28 March 2002 (28.03.2002)
International Patent Classification (IPC) or n G03B 21/00, G02B 27/18, H04N	ational classification and IPC V 9/31, 5/74, G02F 1/13, G	09G 3/36, 3/34	1
Applicant	SANYO ELECTRIC	CO., LTD.	
and is transmitted to the applicant a	ccording to Article 36.		national Preliminary Examining Authority
2. This REPORT consists of a total of	sheets, inclu	ding this cover	sheet.
amended and are the basis for	nied by ANNEXES, i.e., sheet or this report and/or sheets con a Administrative Instructions u	itaining rectific	ion, claims and/or drawings which have been ations made before this Authority (see Rule
These annexes consist of a t	otal of 6 sheets	<b>.</b>	
This report contains indications relations.	ating to the following items:		
I Basis of the report	·		İ
II Priority			
III Non-establishment	of opinion with regard to nov	elty, inventive	step and industrial applicability
IV Lack of unity of in	vention	•	
V Reasoned statement citations and expla	nt under Article 35(2) with reg mations supporting such stater	ard to novelty,	inventive step or industrial applicability;
VI Certain documents	cited		
VII Certain defects in	the international application		
VIII Certain observatio	ns on the international applica	tion	
Date of submission of the demand	Da	te of completion	of this report
18 September 2003 (18	.09.2003)	2	1 April 2004 (21.04.2004)
Name and mailing address of the IPEA/JP	Au	thorized officer	
Racsimile No	Te	lephone No.	

Translation

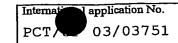


Internal application No.

PCT/JP2003/003751

I. Ba	asis o	f the re	eport		
1. W	/ith r	egard to	the elements of the international application:*	•	
ļ	$\neg$	the inte	rnational application as originally filed		
	র	the des	cription:		
۲		pages	1-5, 7-42	, as originally filed	
		pages		, filed with the demand	
		pages	6 , filed with the letter of	05 February 2004 (05.02.2004)	
	$\supset$				
		the clai	10.11.44	, as originally filed	
		pages pages	, as amended (togethe		
		pages		, filed with the demand	
		pages	10 , filed with the letter of	05 February 2004 (05.02.2004)	
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		pages pages		, filed with the demand	
		pages	, filed with the letter of		
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L	ti	-	ence listing part of the description:		
		pages		, as originally filed	
		pages	, filed with the letter of	, filed with the demand	
		pages			
ť	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is:				
	4		nguage of a translation furnished for the purposes of international search (under F	(ule 23.1(b)).	
	$\dashv$		nguage of publication of the international application (under Rule 48.3(b)).		
		or 55.3			
3.	With prelin	regard ninary e	to any nucleotide and/or amino acid sequence disclosed in the internexamination was carried out on the basis of the sequence listing:	ational application, the international	
	Щ		ned in the international application in written form.		
	Щ		ogether with the international application in computer readable form.		
			hed subsequently to this Authority in written form.		
	Щ		hed subsequently to this Authority in computer readable form.		
		interna	statement that the subsequently furnished written sequence listing does no ational application as filed has been furnished.		
			tatement that the information recorded in computer readable form is identical furnished.	al to the written sequence listing has	
4.		The as	mendments have resulted in the cancellation of:		
			the description, pages		
			the claims, Nos.		
			the drawings, sheets/fig		
5.	$\boxtimes$	This re	eport has been established as if (some of) the amendments had not been made, if the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	since they have been considered to go	
į	n thi	icement is repoi 10.17).	sheets which have been furnished to the receiving Office in response to an invirt as "originally filed" and are not annexed to this report since they do	tation under Article 14 are referred to not contain amendments (Rule 70.16	
			nent sheet containing such amendments must be referred to under item $I$ and an	nexed to this report.	

### INTERNATIONAL PRELIMATARY EXAMINATION REPORT



#### I. Basis of the report

 This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)

The amendment of claim 1 on page 43 and the amendment on page 4, which add a portion stating that "when the aforementioned cyclic deflection is caused to be generated, wasted light is reduced and ... by using at least one of the effects of condensing, reflecting two times or more, and refracting," go beyond the scope of the international application at the time of filing.

For example, the effect of "condensing" can be achieved by a simple lens, not just a lens wheel, and the inclusion of that sort of feature was not disclosed in the international application at the time of filing. Further, the effect of "reflecting two times or more" can be achieved by two simple mirrors, not just a scrolling disk, and the inclusion of that sort of feature was not disclosed in the international application at the time of filing. Moreover, the effect of "refraction" can be achieved by a simple prism, not just a scrolling prism, and the inclusion of that sort of feature was not disclosed in the international application at the time of filing.



### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

III. Non-	establishment of opinion with regard to novelty, inventive step and industrial applicability	y
1. The q indust	questions whether the claimed invention appears to be novel, to involve an inventive step (rially applicable have not been examined in respect of:	(to be non obvious), or to be
	the entire international application.	
$\boxtimes$	claims Nos	Ì
becaus		
	the said international application, or the said claims Nos	mination (specify):
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):	
	the claims, or said claims Nos	are so inadequately supported
	no international source repetution of the companies for the companies of t	
2. A mea	aningful international preliminary examination cannot be carried out due to the failure of the ence listing to comply with the standard provided for in Annex C of the Administrative Instruct	e nucleotide and/or amino acid tions:
	the written form has not been furnished or does not comply with the standard.	
	the computer readable form has not been furnished or does not comply with the standard.	

## INTERNATIONAL PRELICIARY EXAMINATION REPORT

	International	al application No.		
1	PCT)	03/03751		

Ì	v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
l		citations and explanations supporting such statement

I. Statement			
Novelty (N)	Claims	1-43	YES
	Claims		NO NO
Inventive step (IS)	Claims	2-9, 14-36	YES
myonino otep (22)	Claims	1, 10-13, 37-43	NO
Industrial applicability (IA)	Claims	1-43	YES
	Claims		NO

#### 2. Citations and explanations

Documents cited in the international search report:

Document 1: JP 2000-194067 A (Matsushita Electric

Industrial Co., Ltd.), 14 July 2000

Document 2: JP 2001-296841 A (Matsushita Electric

Industrial Co., Ltd.), 26 October 2001

### Newly cited documents:

Document 3: JP 2001-305484 A (Seiko Epson Corp.), 31

October 2001

Document 4: WO 00/60397 A2 (Koninklijke Philips

Electronics N.V.), 12 October 2000

Document 5: JP 2001-174913 A (Minolta Co., Ltd.), 29 June

2001

### Claim 1

A projector equipped with a light source, "a condensing lens (16)," "a color-separating optical system (111)," and "a projection lens (134)" is known in the art, and is also disclosed in document 1. Further, document 1 (paragraphs [0138] to [0156], fig. 24, 30 to 37) discloses a feature wherein moving picture blurring is improved by providing "a rotating shutter (141b)" in between a light source and "a condensing lens (16)." Therefore, document 1 is recognized as disclosing a projector equipped with a

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

light source, "a condensing lens (16)," "a color-separating optical system (111)," and "a projection lens (134)," wherein moving picture blurring is improved by providing "a rotating shutter (141b)" in between the light source and the "condensing lens (16)."

Document 2 (paragraphs [0192] to [0196], fig. 20) is recognized as disclosing a projector wherein moving picture blurring is improved without fundamental loss of brightness by using "a rotating prismatic mirror (361)" (corresponding to "a light-deflecting means for causing generation of cyclic deflection of light" in the present application) in place of a shutter.

A person skilled in the art could easily conceive of using the "rotating prismatic mirror" disclosed in document 2 in place of the "rotating shutter (141b)" disclosed in document 1.

Therefore, the invention described in claim 1 does not involve an inventive step in the light of documents 1 and 2.

#### Claims 10 and 11

The use of a tapered rod prism is disclosed in document 3 (fig. 3), and a person skilled in the art could easily conceive of the application thereof.

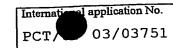
Further, a light source equipped with a reflecting mirror is known in the art.

Therefore, the invention described in claims 10 and 11 does not involve an inventive step in the light of documents 1 to 3.

#### Claim 12

The use of a lens array wheel as a light-deflecting means is disclosed in document 4, and a person skilled in the art could easily conceive of the application thereof.

## INTERNATIONAL PRELIDE ARY EXAMINATION REPORT



Therefore, the invention described in claim 12 does not involve an inventive step in the light of documents 1, 2, and 4.

#### Claim 13

Using a prism that rotates freely as a light-deflecting means is disclosed in document 5 (fig. 4), and a person skilled in the art could easily conceive of the application thereof.

Therefore, the invention described in claim 13 does not involve an inventive step in the light of documents 1, 2, and 5.

### Claims 37 to 42

Claims 37 to 42 describe features fittingly determined at the discretion of a person skilled in the art.:

Therefore, the invention described in claims 37 to 42 does not involve an inventive step in the light of documents 1 and 2.

### Claim 43

The provision of a shutter in the optical path of each color of light is disclosed in document 1 (fig. 35). A person skilled in the art could easily conceive of using a light-deflecting means.

Therefore, the invention described in claim 43 does not involve an inventive step in the light of documents 1 and 2.

### Claims 2 to 9 and 14 to 36

The invention described in claims 2 to 9 and 14 to 36 is not disclosed in any of the documents cited in the international search report, nor would it be obvious to a person skilled in the art.